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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|---|---|---|
| Docket No. | GK-EIS-1102/500593.20095 | |
| Applicant(s): | Axel HAUPT, et al. | Confirmation No.: 7635 |
| Application No.: | 10/565.838 | Examiner: |
| 371 Filed: | February 12, 2007 | Group: |
| For: | METHOD AND APPARATUS FOR THE DIGITIZATION OF AND FOR THE DATA COMPRESSION OF ANALOG SIGNAL | |

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

## S U P P L E M E N T A L
## INFORMATION DISCLOSURE STATEMENT

S I R:

Supplemental to the information Disclosure Statement filed on January 25, 2006, applicants submits copies of the articles AM - AN  and  AR – AT  previously omitted.

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

**AL**   **BOOK NOT AVAILABLE YET** (N. S. Jayant, P. Noll, Digital Coding of Waveforms, Prentice-Hall, Englewood Cliffs, New Jersey, 1984)

**AM**   **R. M. Gray, David L. Neuhoff, Quantization,** *IEEE Transactions on Information Theory,* **pp. 2325-2383, Oct. 1998**

**AN**   **Manfred Herbert, Lattice Quantization of Speech Signals and Speech Model Signals.  Selected Works on Information Systems, No. 79, editor: H.-W. Schüßler, Erlangen 1991**

**AO**   **NOT AVAILABLE YET** Volder, Jack, The CORDIC Trigonometric Technique, *IRE Trans. Electronic Computing,* Vol. EC-8, pp. 330-334, Sept. 1959

**AP**   **BOOK NOT AVAILABLE YET** (J. H. Conway and N. J. A. Sloane, Sphere Packings, Lattices, and Groups, Springer-Verlag, 3rd edition)

**AQ**   **NOT AVAILABLE YET** Robert F. H. Fischer, Precoding and Signal Shaping for Digital Transmission, pp. 258-281, John Wiley & Sons, Inc., New York, 2002, ISBN 0471 22410 3

**AR**   **T. Berger, Lossy Source Coding,** *IEEE Transactions on Information Theory,* **pp. 2693-2723, Oct. 1998**

**AS**   **L. Pakula and S. Kay, Simple Proofs of the Minimum Phase Property of the Prediction Error Filter,** *IEEE Transactions on ASSP,* **Vol. 31, 1983**

**AT**   **Erik Agrell, Thomas Eriksson, Alexander Vardy, Kenneth Zeger, Closest Point Search in Lattices,** *IEEE Transactions on Information Theory,* **pp. 2201-2214, Aug. 2002**
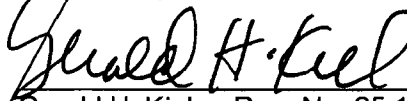
OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

AU

    **Music Pieces**    "Zauberflöte" by Wolfgang Amadeus Mozart (Philips Classics Productions
    **NOT**    1994 (DDD),

AV     **AVAILABLE**

    Mozart, "Der Vogelfänger bin ich ja" (Die Zauberflöte), Polygram Records
    #442569-2, track 3

Accompanying this Supplemental Information Disclosure Statement is a copy of the originally submitted form PTO-1449.

This submission is not an admission that the information disclosed in the documents is material to the patentability of the invention disclosed and/or claimed in the above-identified application.

Respectfully submitted,

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Enclosures:
    Originally filed PTO-1449
    5 Articles

# LIST OF PRIOR ART CITED BY APPLICANT
## (Filed on January 25, 2006)

Docket No.  **GK-EIS-1102/500593.20095**

Applicant(s):  **Axel HAUPT, Volker SCHMITT, Johannes HUBER and Bernd MATSCHKAL**

Application No.  (Int'l Appln No. PCT/EP2004/008217 23JUL04)  Group:

Filed:  Examiner:

## U.S. PATENT DOCUMENTS

| Exam. Init | | Document Number | Date | Name | Class | Sub-Class | Filing Date Appropriate |
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| /D.A./ | AA | 4,433,604 | 02/28/1984 | Ott | | | |

## FOREIGN PATENT DOCUMENTS

| | | Document Number | Date | Country | CLASS | Sub-Class | Translation YES    NO |
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| /D.A./ | AH | 0 360 770 | 03/28/1990 | European | | | n/a |

## OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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| | AL | N. S. Jayant, P. Noll, Digital Coding of Waveforms, Prentice-Hall, Englewood Cliffs, New Jersey, 1984 |
| /D.A./ | AM | R. M. Gray, David L. Neuhoff, Quantization, *IEEE Transactions on Information Theory*, pp. 2325-2383, Oct. 1998 |
| | AN | Manfred Herbert, Lattice Quantization of Speech Signals and Speech Model Signals. Selected Works on Information Systems, No. 79, editor: H.-W. Schüßler, Erlangen 1991 |
| | AO | Volder, Jack, The CORDIC Trigonometric Technique, *IRE Trans. Electronic Computing*, Vol. EC-8, pp. 330-334, Sept. 1959 |
| | AP | J. H. Conway and N. J. A. Sloane, Sphere Packings, Lattices, and Groups, Springer-Verlag, 3rd edition |
| | AQ | Robert F. H. Fischer, Precoding and Signal Shaping for Digital Transmission, pp. 258-284, John Wiley & Sons, Inc., New York, 2002, ISBN 0-471-22410-3 |
| /D.A./ | AR | T. Berger, Lossy Source Coding, *IEEE Transactions on Information Theory*, pp. 2693-2723, Oct. 1998 |
| /D.A./ | AS | L. Pakula and S. Kay, Simple Proofs of the Minimum Phase Property of the Prediction Error Filter, *IEEE Transactions on ASSP*, Vol. 31, 1983 |
| /D.A./ | AT | Erik Agrell, Thomas Eriksson, Alexander Vardy, Kenneth Zeger, Closest Point Search in Lattices, *IEEE Transactions on Information Theory*, pp. 2201-2214, Aug. 2002 |
| | AU | "Zauberflöte" by Wolfgang Amadeus Mozart (Philips Classics Productions 1994 (DDD); |
| | AV | Mozart, "Der Vogelfänger bin ich ja" (Die Zauberflöte), Polygram Records #442569-2, track 3 |
| /D.A./ | AW | XP-009038121 / Huber, et al "Spherical logarithmic quantization and its application for DPCM" ITG-Fachbericht, VDE-Verlag GmbH, JAN2004 pages 349-356 |
| /D.A./ | AX | XP-002301076 / Adoul, et al. :Baseband speech coding at 2400 BPS using spherical vector quantization" Proceedings of the *IEEE* International Conference on Acoustics, Spweech and Signal Processing *IEEE*, NY, MARCH1984, pages 1.12.1 – 1.12.4 |
| | AY | XP-002301077 / Wilson "Magnitude/phase quantization of independent Gaussian variates" *IEEE* Transactions on Communications USA, NOV1980, pages 1924-1929 |
| /D.A./ | AZ | XP-002301078 / Swaszek "Uniform spherical coordinate quantization of spherically symmetric sources" *IEEE* Transactions on Communications USA, JUNE1985, pages 518-521 |

Examiner:  /Daniel Abebe/ (04/06/2010)    Date:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.